

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/04032

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07H19/10 C07H19/20 C07H21/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                        | Relevant to claim No. |
|------------|---|-----------------------|
| X          | WO 88 02004 A (APPLIED BIOSYSTEMS)<br>24 March 1988 (1988-03-24)<br>claims 1-82; examples I,IV,V<br>---   | 1,3-7,10              |
| A          | WO 93 12132 A (CENTRE NAT RECH SCIENT)<br>24 June 1993 (1993-06-24)<br>page 11, line 26 -page 12, line 10 | 1                     |
| X          | annex 2, compound 17<br>---   | 2,3,5,6               |
| X          | EP 0 006 220 A (HOECHST AG)<br>9 January 1980 (1980-01-09)<br>page 7 -page 8; examples 1-8<br>---<br>-/-- | 10                    |



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

27 April 2000

Date of mailing of the international search report

11/05/2000

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| X          | CHEMICAL ABSTRACTS, vol. 83, no. 23,<br>1975<br>Columbus, Ohio, US;<br>abstract no. 193184h,<br>L.I.MIZRAKH ET AL.:<br>"3-Acyl-1,3,2-oxaphospholanes and<br>Phosphorinanes. Synthesis and Certain<br>Properties."<br>page 454; column 1;<br>XP002136548<br>abstract<br>& ZH. OBSCH. KHIM.,<br>vol. 45, no. 7, 1974, page 1469-73 | 10,11                 |
| X          | CHEMICAL ABSTRACTS, vol. 81, no. 11,<br>1974<br>Columbus, Ohio, US;<br>abstract no. 63723f,<br>M.A.PUDOVIK ET AL.: "Synthesis of<br>N-Acylated 1,3,2-Oxaazaphospholanes."<br>page 484; column 1;<br>XP002136549<br>abstract<br>& ZH. OBSHCH. KHIM.,<br>vol. 44, no. 5, 1974, pages 1020-1024,                                    | 10,11                 |
| X          | CHEMICAL ABSTRACTS, vol. 79, no. 11,<br>1973<br>Columbus, Ohio, US;<br>abstract no. 66261y,<br>M.A.PUDOVIK ET AL.: "N-Acylated<br>Oxazaphospholanes and Phosphorinanes."<br>page 441; column 1;<br>XP002136550<br>abstract<br>& ZH. OBSHCH. KHIM.,<br>vol. 43, no. 3, 1973, page 679   | 10,11                 |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s)  | Publication<br>date  |
|---|---------------------|---|--|
| WO 8802004 A                              | 24-03-1988          | EP 0261283 A<br>JP 6102670 B<br>JP 1500748 T                                  | 30-03-1988<br>14-12-1994<br>16-03-1989                             |
| WO 9312132 A                              | 24-06-1993          | FR 2685331 A  | 25-06-1993   |
| EP 0006220 A                              | 09-01-1980          | DE 2826622 A<br>CA 1117964 A<br>DE 2960657 D<br>JP 55002679 A<br>US 4263231 A | 03-01-1980<br>09-02-1982<br>12-11-1981<br>10-01-1980<br>21-04-1981 |